



Patent  
Attorney's Docket No. 021565-108

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of )  
Christopher A. HELLIWELL et al. ) Group Art Unit: 1632  
Application No. 10:055,001 ) Examiner: Unassigned  
Filed: January 25, 2002 )  
For: METHODS AND MEANS FOR )  
PRODUCING EFFICIENT SILENCING )  
CONSTRUCT USING )  
RECOMBINATIONAL CLONING )

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INFORMATION DISCLOSURE STATEMENT  
TRANSMITTAL LETTER

TECH CENTER 1600 2900

Assistant Commissioner for Patents  
Washington, D.C. 20231

Sir:

Enclosed is an Information Disclosure Statement and accompanying form PTO-1449 for the above-identified patent application.


- ☒ [X] No additional fee for submission of an IDS is required.
- ☐ [ ] The fee of \$180.00 (126) as set forth in 37 C.F.R. § 1.17(p) is also enclosed.
- ☐ [ ] A certification under 37 C.F.R. § 1.97(e) is also enclosed.
- ☐ [ ] A certification under 37 C.F.R. § 1.97(e), and the fee of \$180.00 (126) as set forth in 37 C.F.R. § 1.17(p) are also enclosed.
- ☐ [ ] Charge \$\_\_\_\_\_ to Deposit Account No. 02-4800 for the fee due.
- ☐ [ ] A check in the amount of \$\_\_\_\_\_ is enclosed for the fee due.

The Commissioner is hereby authorized to charge any appropriate fees under 37 C.F.R. §§ 1.16, 1.17 and 1.21 that may be required by this paper, and to credit any overpayment, to Deposit Account No. 02-4800. This paper is submitted in duplicate.

Respectfully submitted,

BURNS, DOANE, SWECKER & MATHIS, L.L.P.

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By:   
Malcolm K. McGowan, Ph.D.  
Registration No. 39,300

Date: 2 April 2002



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**INFORMATION DISCLOSURE STATEMENT**

Assistant Commissioner for Patents  
Washington, D.C. 20231

Sir:

In accordance with the duty of disclosure as set forth in 37 C.F.R. § 1.56, Applicants hereby submit the following information in conformance with 37 C.F.R. §§ 1.97 and 1.98. Pursuant to 37 C.F.R. § 1.98, a copy of each of the documents cited is enclosed.

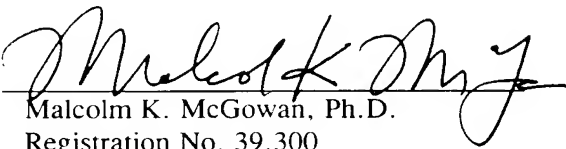
The documents are being submitted within 3 months of the filing or entry of the national stage of this application or before the first Office Action on the merits, whichever is later, therefore no fee or statement is required under 37 C.F.R. § 1.97(b).

Also enclosed is a copy of an International Search Report issued in the corresponding international application which cites some of the listed references.

To assist the Examiner, the documents are listed on the attached form PTO-1449. It is respectfully requested that an Examiner initialed copy of this form be returned to the undersigned.

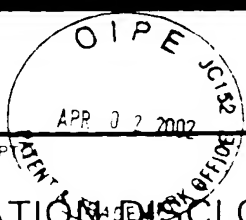
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Substitute form 1449A Patent and Trademark Office <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>	ATTORNEY'S DKT NO. 021565-108	APPLICATION NO. 10 055.001
	APPLICANT Helliwell et al	
	FILING DATE Jan. 25, 2002	GROUP 1632

U.S. PATENT DOCUMENTS				
Examiner Initials	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication (MM-DD-YYYY)
	Number	Kind Code (if known)		

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FOREIGN PATENT DOCUMENTS						
Examiner Initials	Foreign Patent Document		Country	Date of Publication (MM-DD-YYYY)	Translation	
	Number	Kind Code (if known)			Yes	no
	WO 96/40724		PCT	12-19-1996		
	WO 98/53083		PCT	11-26-1998		
	WO 99/32619		PCT	07-01-1999		
	WO 99/49029		PCT	09-30-1999		
	WO 99/53050		PCT	10-21-1999		
	WO 99/61631		PCT	12-02-1999		
	WO 00/01846		PCT	01-13-2000		
	WO 00/44914		PCT	08-03-2000		
	WO 00/49035		PCT	08-24-2000		

NON PATENT LITERATURE DOCUMENTS		
Examiner Initials	Include name of author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	
	AzpiroLeehan and Feldmann "T-DNA Insertion Mutagenesis in <i>Arabidopsis</i> : Going Back and Forth" (1997) <i>Trends Genet.</i> 13:152-156	
	Fire et al. "Potent and Specific Genetic Interference by Double-Stranded RNA in <i>Caenorhabditis elegans</i> " (1998) <i>Nature</i> 391:806-811	
	Hamilton et al. "A Transgene With Repeated DNA Causes High Frequency, Post-transcriptional Suppression of ACC-oxidase Gene Expression in Tomato" (1998) <i>Plant J.</i> 15:737-746	
	Hoess et al. "The Role of the <i>loxP</i> Spacer Region in P1 Site-Specific Recombination" (1986) <i>Nucl. Acids Res.</i> 14:2287	
	Landy "Dynamic, Structural, and Regulatory Aspects of $\lambda$ Site-Specific Recombination" (1989) <i>Ann. Rev. Biochem.</i> 58:913	
	Martienssen "Functional Genomics: Probing Plant Gene Function and Expression with Transposons" (1998) <i>Proc. Natl. Acad. Sci. USA</i> 95:2021-2026	
	Montgomery et al. "Double-Stranded RNA as a Mediator in Sequence-Specific Genetic Silencing and Co-Suppression" (1998) <i>Trends in Genetics</i> 14:255-258	
	Ross-MacDonald et al. "Large-Scale Analysis of the Yeast Genome by Transposon Tagging and Gene Disruption" (1999) <i>Nature</i> 402:413-418	
	Smith et al. "Total Silencing by Intron-Spliced Hairpin RNAs" (2000) <i>Nature</i> 407:319-320	
	Wagner and Sun "Double-Stranded RNA Poses Puzzle" (1998) <i>Nature</i> 391:744-745	
	Waterhouse et al. "Virus Resistance and Gene Silencing in Plants Can be Induced by Simultaneous Expression of Sense and Antisense RNA" (1998) <i>Proc. Natl. Acad. Sci. USA</i> 95:13959-13964	
	Wesley et al. "Construct Design for Efficient, Effective and High-Throughput Gene Silencing in Plants" (2001) <i>The Plant Journal</i> 27(6):581-590	
Examiner Signature		Date Considered